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		1	6	25
HSP 65 - <u>M.T.</u>	-----	-----	MAKTI	AYDEEARRGL ERGLNALADA
HSP 60 - <u>RAT</u>	MLRLPTVLRQ	MRPVSRALAP	HLTRAYAKDV	KFGADARALM LQGVDLLADA
HSP 60 - <u>HUMAN</u>	MLRLPTVFRQ	MRPVSRVLAP	HLTRAYAKDV	KFGADARALM LQGVDLLADA
Consensus	-----	-----	AK--	-----AR--- --G---LADA

		26		75
HSP 65 - <u>M.T.</u>	VKVTLGPKGR	NVVLEKKNGA	PTITNDGVSI	AKEIELEDPY EKIGAEIVKE
HSP 60 - <u>RAT</u>	VAVTMGPKGR	TVIIEQSWGS	PKVTKDGVTV	AKSIDLKDKY KNIGAKLVQD
HSP 60 - <u>HUMAN</u>	VAVTMGPKGR	TVIIEQSWGS	PKVTKDGVTV	AKSIDLKDKY KNIGAKLVQD
Consensus	V-VT-GPKGR	-V--E--WG-	P--T-DGV--	AK-I-L-D-Y --IGA-LV--

6-7 (31-52 AA)

		76		125
HSP 65 - <u>M.T.</u>	VAKKTDDVAG	DGTTTATVLA	QALVREGLRN	VAAGANPLGL KRGIEKAVEK
HSP 60 - <u>RAT</u>	VANNTNEEAG	DGTTTATVLA	RSIAKEGFKE	ISKGANPVEI RRGVMLAVDA
HSP 60 - <u>HUMAN</u>	VANNTNEEAG	DGTTTATVLA	RSIAKEGFKE	ISKGANPVEI RRGVMLAVDA
Consensus	VA--T---AG	DGTTTATVLA	-----EG---	---GANP--- -RG---AV--

21 (121-136 AA)

		126		174
HSP 65 - <u>M.T.</u>	VTETLLKGAK	EVETKEQIAA	TAAISA.GDQ	SIGDLIAEAM DKVGNVGVIT
HSP 60 - <u>RAT</u>	VIAELKKQSK	PVTTPEEIAQ	VATISANGDK	DIGNIISDAM KKVGRKGVT
HSP 60 - <u>HUMAN</u>	VIAELKKQSK	PVTTPEEIAQ	VATISANGDK	EIGNIISDAM KKVGRKGVT
Consensus	V---L-K--K	-V-T-E-IA-	-A-ISA-GD-	-IG--I--AM -KVG--GVIT

		175		224
HSP 65 - <u>M.T.</u>	VEESNTFGLQ	LELTGEMRFD	RGYISGYFVT	DPERQEAVLE DPFYLLVSSK
HSP 60 - <u>RAT</u>	VKDGTKLNDE	LEIIEGMRFD	RGYISPYFIN	TSKGQKCEFO DAYVLLSEKK
HSP 60 - <u>HUMAN</u>	VKDGTKLNDE	LEIIEGMRFD	RGYISPYFIN	TSKGQKCEFO DAYVLLSEKK
Consensus	V----T----	LE--EGM-FD	-GYIS-YF--	-----Q----- D-Y-LL---K

31 (181-196 AA)

36 (211-226 AA)

		225		274
HSP 65 - <u>M.T.</u>	VSTVKDLLPL	LEKVIAGAGP	LLIIAEDVEG	EALSTLVVNK IRTGTFKSVAV
HSP 60 - <u>RAT</u>	ISSVQSIVPA	LEIANAHKRP	LVIIAEDVDG	EALSTLVNLR LKVGLOQVAV
HSP 60 - <u>HUMAN</u>	ISSIQSIVPA	LEIANAHKRP	LVIIAEDVDG	EALSTLVNLR LKVGLOQVAV
Consensus	-S-----P-	LE-----KP	L-IIAEDV-G	EALSTLV-N- -----VAV

FIG. 1A

40 (236-251 AA)

45 (265-280 AA)



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275. 323  
HSP 65 - M.T. KAPGFGDRRK AMLQDMAILT GGQVISEE.V GLTLENADLS LLGKARKVVV  
HSP 60 - RAT KAPGFGDNRK NQLKDMAIAT GGAVFGEEGL NLNLEDVQAH DLGKVGIVTIV  
HSP 60 - HUMAN KAPGFGDNRK NQLKDMAIAT GGAVFGEEGL TLNLEDVQPH DLGKVGIVTIV  
Consensus KAPGFGD-RK --L-DMAI-T GG-V--EE-- -L-LE----- -LGK---V-V

324 373  
HSP 65 - M.T. TKDETTIVEG AGDTDAIAGR VAQIRQEIEN SDSDYDREKL QERLAKLAGG  
HSP 60 - RAT TKDDAMLLKG KGDKAHIEKR IQEITEQLDI TTSEYEKEKL NERLAKLSDG  
HSP 60 - HUMAN TKDDAMLLKG KGDKAQIEKR IQEIIIEQLDV TTSEYEKEKL NERLAKLSDG  
Consensus TKD-----G -GD---I--R ---I----- --S-Y--EKL -ERLAKL--G

59 (349-364 AA)

374 423  
HSP 65 - M.T. VAVIKAGAAT EVELKERKHR IEDAVRNAKA AVEEGIVAGG GVTLLQAAPT  
HSP 60 - RAT VAVLKVGGS DVEVNEKKDR VTDALNATRA AVEEGIVLGG GCALLRCIPA  
HSP 60 - HUMAN VAVLKVGGS DVEVNEKKDR VTDALNATRA AVEEGIVLGG GCALLRCIPA  
Consensus VAV-K-G--- -VE--E-K-R --DA-----A AVEEGIV-GG G--LL---P-

63 (373-388 AA)

424 472  
HSP 65 - M.T. LDELK.LEGD EATGANIVKV ALEAPLKQIA FNSGLEPGVV AEKVRNLPAG  
HSP 60 - RAT LDSLKPANED QKIGIEIIR ALKIPAMTIA KNAGVEGSLI VEKILQSSSE  
HSP 60 - HUMAN LDSLTPANED QKIGIEIIR TLKIPAMTIA KNAGVEGSLI VEKIMQSSSE  
Consensus LD-L-----D ---G--I-K- -L--P---IA -N-G-E----- -EK-----

473 522  
HSP 65 - M.T. HGLNAQTGVY EDLLAAGVAD PVKVTRSAIQ NAASIAGLFL TTEAVVADKP  
HSP 60 - RAT VGYDAMLGDF VNMVEKGIID PTKVVRTALL DAAGVAPLLT TAEAVVTEIP  
HSP 60 - HUMAN VGYDAMAGDF VNMVEKGIID PTKVVRTALL DAAGVASLLT TAEVVVTEIP  
Consensus -G--A--G-- -----G--D P-KV-R-AL- -AA--A-L-- T-E-VV---P

84 (499-514 AA)

523 540  
HSP 65 - M.T. EKEKASVPGG GDMGGMDF--  
HSP 60 - RAT KEEKD..PGM GAMGGMGGGM GGGMF  
HSP 60 - HUMAN KEEKD..PGM GAMGGMGGGM GGGMF  
Consensus --EK---PG- G-MGGM-----

FIG. 1B

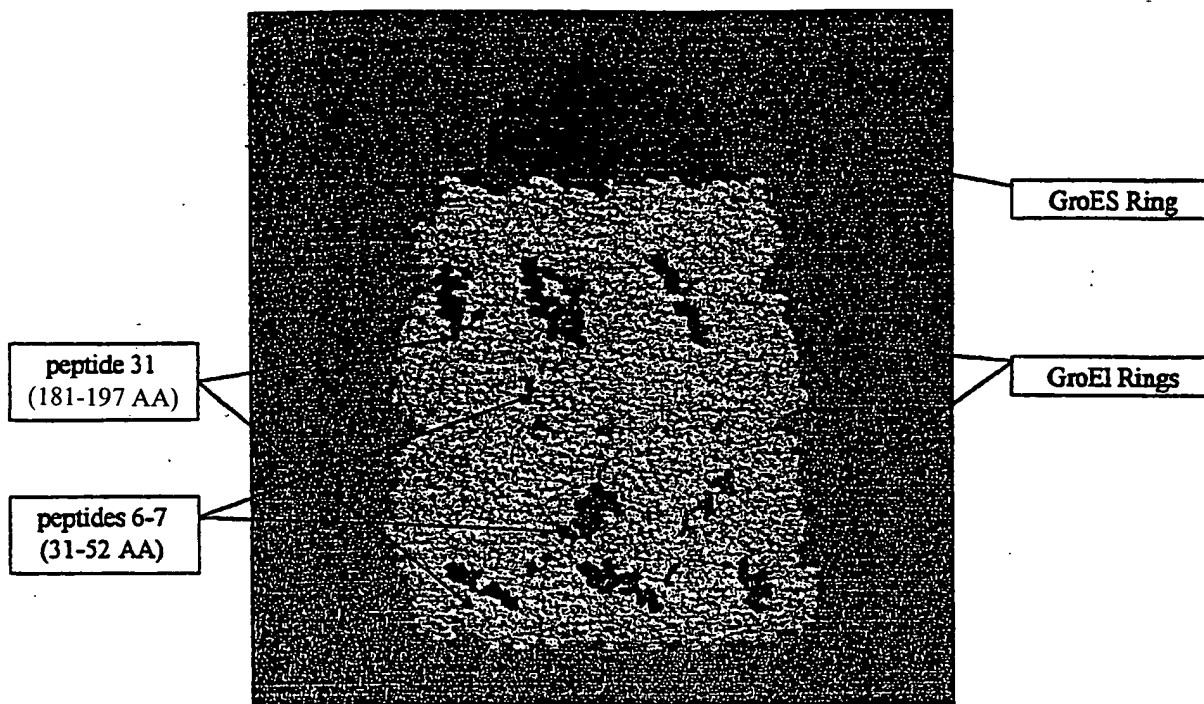


FIG. 2

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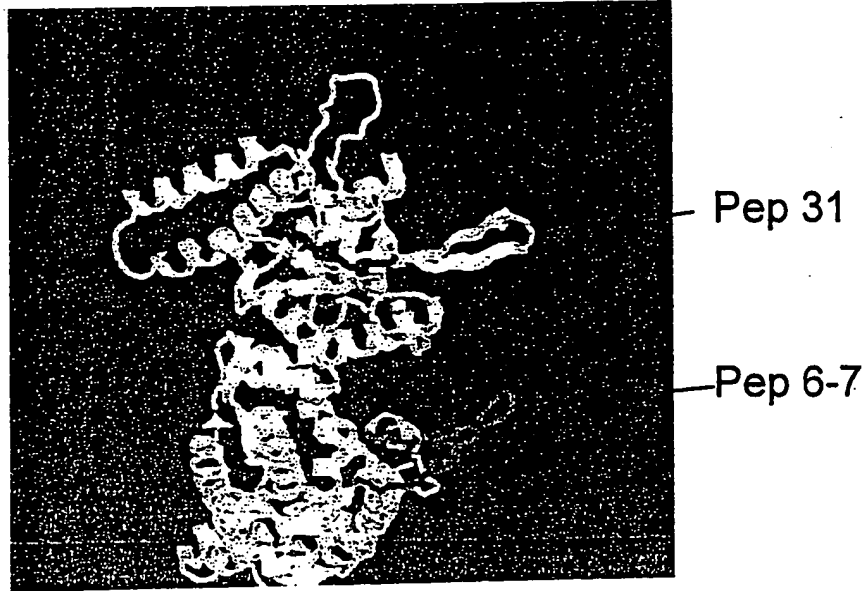


FIG. 3A

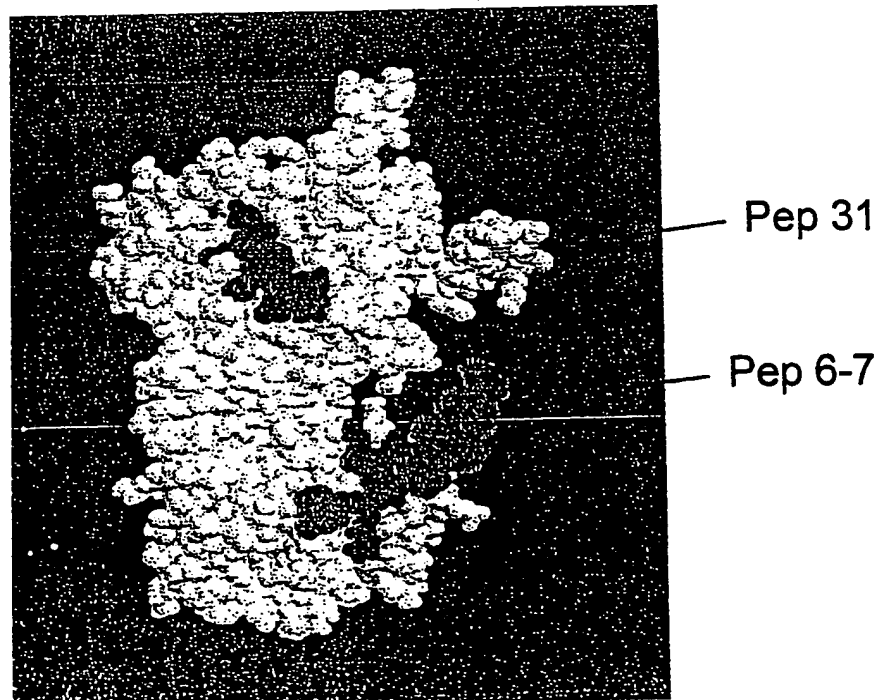


FIG. 3B

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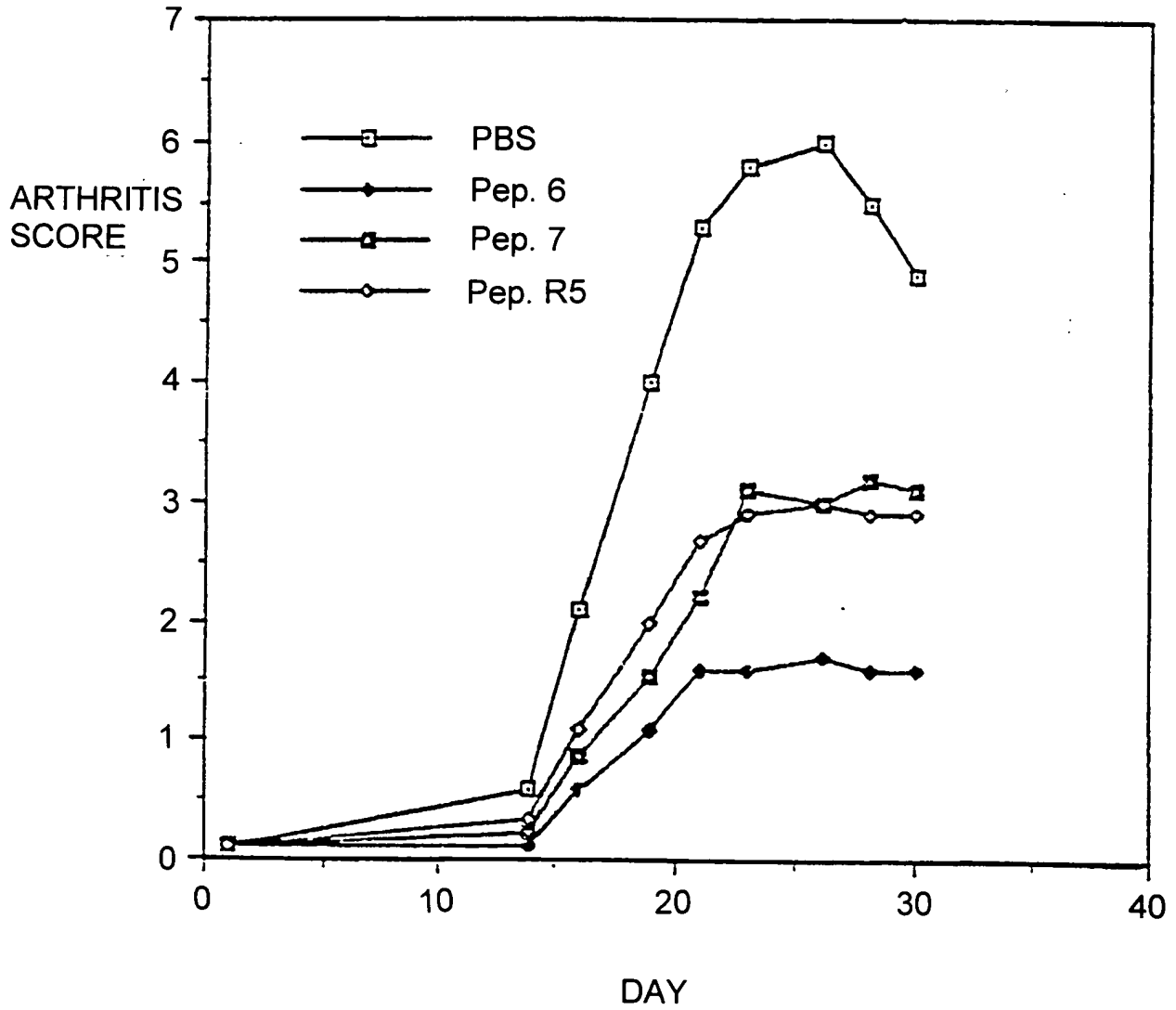


FIG. 4



The "Protective" Motif

MT	HSP Peptide 6- (31-46)	G P K G R N <u>V</u> <u>V</u> L <u>E</u> K K <u>W</u> <u>G</u> A <u>P</u>
MT	HSP Peptide 7- (37-52)	<u>V</u> <u>V</u> L <u>E</u> K K <u>W</u> <u>G</u> A <u>P</u> T I T N D G
Rat	HSP Peptide 5- (36-55)	T <u>V</u> <u>I</u> <u>I</u> <u>E</u> Q S <u>W</u> <u>G</u> S <u>P</u> K V T K D G V T V

Common Motif

V = E - - W G - P

FIG. 5

FOR SEQUENCE  
IDENTIFICATION  
PHECHEN

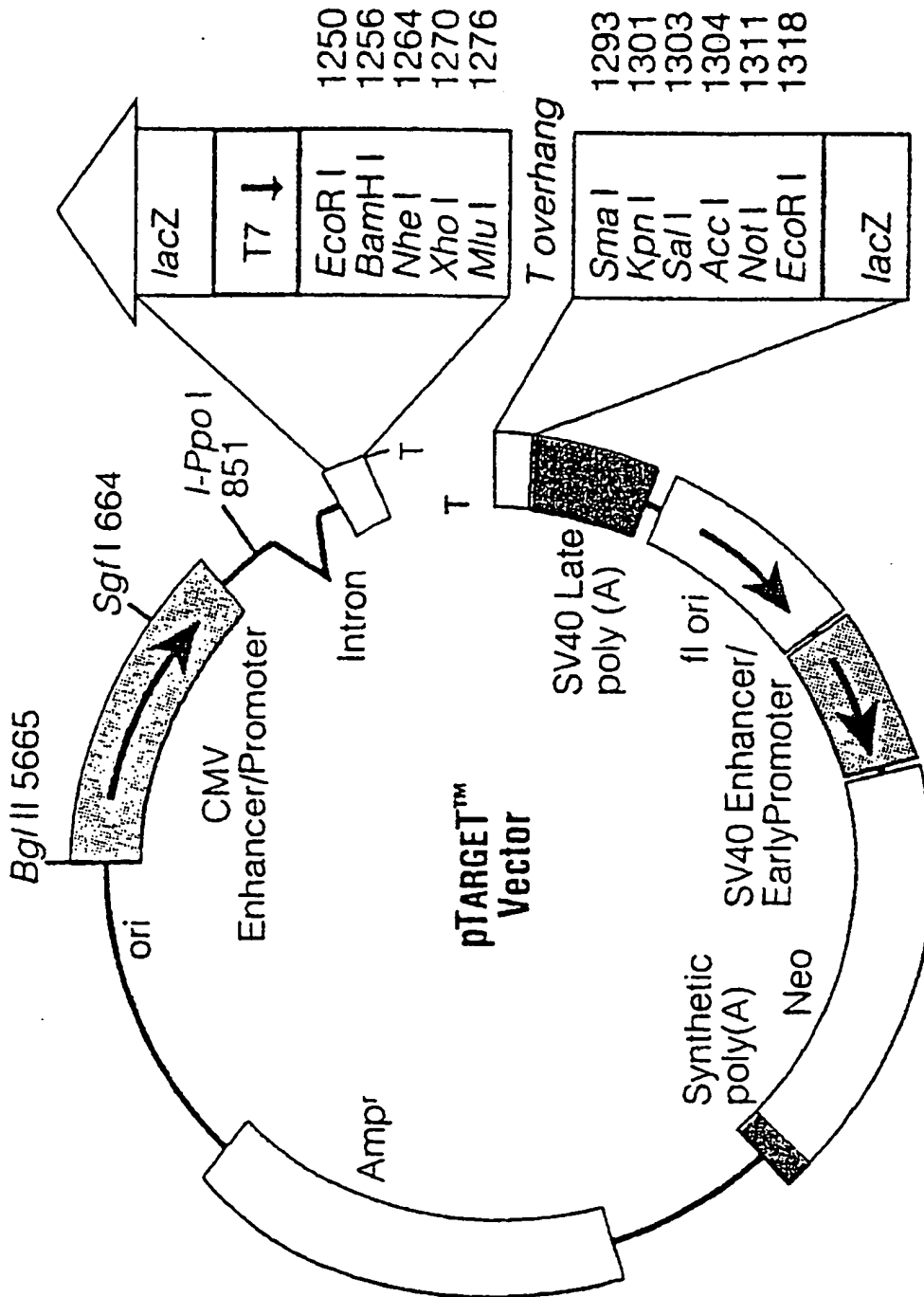


FIG. 6

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